

ABSTRACT

A new improved system and method for end turn retention for wires on a generator rotor for use in high speed applications such as in aircraft applications. The rotor includes a shaft, spokes, supports, and wire winding coils, and at least one cap device. The spokes extend radially outwardly from the shaft, and each support is positioned on an associated spoke. Each coil wraps around an associated support and spoke. Each cap device is coupled to an end of its associated spoke to prevent the windings from moving radially outwardly while the rotor spins. Each support is coupled to an associated cap device, and includes at its radially inward edge a flange protruding away from the respective spoke. Because of the flange and the cap device, slack of the wire coil between the flange and the associated cap is taken up.

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